

## Magnetic tilt sensor

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### Abstract

A magnetic tilt sensor in which a permanent magnet having a surface coated with a magnetic fluid is housed in a space inside a nonmagnetic case and is freely movable, and a magnetic sensing element is disposed to oppose the space through the case. When the case is tilted, the permanent magnet inside the space is moved to a lower position, and hence magnetism detected by the magnetic sensing element changes, thereby detecting a tilt of the case.

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